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CLAIMS

- 1. A remote station apparatus comprising:
- a quality measurement unit for iteratively measuring link quality of a communication link; and
- a differential analyzer for determining changes in the measured link quality.
- The remote station of claim 1, wherein the link quality is measured as
 carrier to interference of a received signal.
- 3. The remote station of claim 2, wherein the quality measurement unit generates a quality metric, and wherein the remote station applies a sector cover to the quality metric.
 - 4. In a wireless communication system, a method comprising:
 - generating quality messages at a first frequency, the quality message providing information on the quality of a communication link; and
 - generating differential indicators at a second frequency, the differential indicators indicating changes in the quality of the communication link, wherein the second frequency is greater than the first frequency.
- 5. The method of claim 4, wherein each quality message includes carrier to interference information of a received signal at a receiver
 - 6. The method of claim 5, wherein the received signal is a pilot signal.
- 7. The method of claim 4, wherein each differential indicator is at least one 2 bit.

	8. The method of claim 4, wherein generating differential indicators further
2	comprises:
	comparing a current link quality measurement to a projected link
4	quality measurement;
	decrementing the differential indicator when the current link quality
6	measurement is less than the projected link quality
	measurement;
8	incrementing the differential indicator when the current link quality
	measurement is greater than or equal to the projected link
10	quality measurement; and
	transmitting the differential indicator.
	9. In a wireless communication system for processing voice
2	communications and packet-switched communications, a base station
	comprising:
4	receive circuitry operative to receive signals on a reverse link, including a quality message and differential indicators, the
6	quality message periodically providing a quality metric of a
	forward link, wherein the differential indicators track the quality
8	metric between successive quality messages;
	a memory storage unit operative to store a quality message
10	received on the reverse link; and
	a differential analyzer to update the quality message stored in the
12	memory storage unit in response to the differential indicators.
	10. The base station of claim 9, further comprising:
2	a scheduler unit operative to schedule packet-switched
	communications in the system in response to the quality
4	message stored in the memory storage unit.

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- 11. The base station of claim 10, wherein the quality metric is a data rate2 control message.
 - 12. The base station of claim 11, wherein:
- each data rate control message corresponds to an entry in a data rate control table; and
- each differential indicator points to a neighboring entry in the data rate control table.
- 13. wireless communication system for processing voice In a 2 communications and packet-switched communications, transceiver comprising:
- a data rate control table listing data rate control messages and associated transmission information;
 - a data rate calculation unit coupled to the data rate control table, the data rate calculation unit operative to select a data rate control message in response to a received signal at the transceiver; and
 - a differential analyzer coupled to the data rate calculation unit operative to generate differential indicators pointing to a next entry in the data rate control table.